

Two New Aphelinine Parasites of Scale Insects.

By L. O. HOWARD.

In the course of his almost constant journeying in different parts of the world searching for beneficial insects, Mr. Geo. Compere, Agent of the State Board of Horticulture of California and of the Department of Agriculture of Western Australia, finds many curious and interesting parasitic Hymenoptera. Many of these he sends to the writer for determination, and in a lot received quite recently there occur two new Aphelinines which it seems desirable to name at once. The descriptions follow:

Genus **PHYSCUS** Howard.

Phycus Howard. Bulletin No. 1, Technical Series, Bureau of Entomology, U. S. Department of Agriculture, 1895, page 43.
Type *Coccophagus varicornis* Howard (Annual Report, Department of Agriculture, 1880, page 360.

Phycus flaviventris n. sp.

Female.—Length 0.97 mm.; expanse 2 mm.; greatest width of forewing 0.3 mm.—Somewhat slenderer than *varicornis*. Head and thorax dark brown nearly black. Abdomen above and below orange-yellow, brown at sides. Scape brown; pedicel and all three funicle joints pallid; club brown, pale at tip. Fore femora and base of fore tibiae brown; remainder of front legs and all of middle and hind legs pallid, tinged with yellowish. Wing veins not colored, transparent.

Type No. 12,167, U. S. N. M.

Described from two female specimens reared by George Compere from *Chrysomphalus aurantii* Mask, Manila, P. I.

Genus **PERISSOPTERUS** Howard.

Perissopterus Howard. Technical Series No. 1, Bureau of Entomology, U. S. Dept. Agric., 1895, page 20. Type *Aphelinus pulchellus* Howard, Annual Report, U. S. Dept. Agric., 1880 page 356.

Perissopterus carnesi n. sp.

Female.—Length 0.81 mm.; expanse 1.83 mm.; greatest width of fore-wing 0.198.—Resembles *Perissopterus javensis* Howard (Technical Series No. 12, Part IV, 1907, page 88), but differs in having the tip of the first tarsal joint of the middle legs yellow and the fourth

tarsal joint brown. This tarsus being thus colored, 4th and 5th joints and all of 1st joint except tip brown; 2nd and 3rd and tip of 1st yellow.

Type No. 12,168, U. S. N. M.

Described from three female specimens reared by George Compere from *Lepidosaphes beckii*, China. The specific name is given in honor of Mr. Edward K. Carnes who has charge of the admirable insectary of the California State Board of Horticulture at Sacramento, Cal.



The Genus *Trybliophorus* Serville, and its Species.

BY LAWRENCE BRUNER.

Trybliophorus Serville, Rev. Meth. Orthopt., p. 83 (1831); *Ib.*, Hist. Nat. Orthopt., p. 631 (1839); Stål, Syst. Acrid., p. 43 (1878); Bruner, Rev. Syst. Orthopt., p. 136 (1893); Giglio-Tos, Boll. Mus. Zool. Anat. Comp. Univ. Torino, XIII, No. 311, p. 43 (1898).
Stegastris Gerstaecker, Bemerkens, Orthopt., p. 63 (1888); Bruner, Rev. Syst. Orthopt., p. 136, foot note (1893).

This genus is characterized chiefly by having the disk of the hind lobe of the pronotum flattened and extended in the form of a triangle backwards so as to reach the front edge of the first abdominal segment. The apical joint of the maxillary palpi is ampliate and much flattened, while the antennae are very heavy and elongate.

Recently while studying a small collection of locusts from Peru, South America, that had been submitted to the writer for determination, a single female specimen of the genus *Trybliophorus* was encountered among other interesting forms. An examination of this insect showed it to be an undescribed species. It was accordingly named *T. peruviana*, and a description of it drawn up and sent, along with others, to Prof. Nicholas Iconnicoff, of the University of Moscow, for publication. In the meantime Mr. James A. G. Rehn, of Philadelphia, has submitted to me for examination and description, if I so desired, another specimen of the same genus. The latter insect, also a female, comes from Surinam or Dutch Guinea.

An examination of the several descriptions heretofore pub-